

3/7/4 (Item 1 from file: 149)  
DIALOG(R) File 149:TGG Health&Wellness DB(SM)  
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01200680 SUPPLIER NUMBER: 07727599 (THIS IS THE FULL TEXT)  
General recommendations on immunization. (Recommendations of the  
Immunization Practices Advisory Committee, Part 1) (Morbidity and  
Mortality Weekly Report) (column)  
JAMA, The Journal of the American Medical Association, v262, n1, p22(4)  
July 7,  
1989

1556642 EMBASE No: 1980240217

Hypersensitivity reactions associated with botulinal antitoxin

Black R.E.; Gunn R.A.

Florida Dept. Hlth Rehab. Serv., Tallahassee, Fla. 32301 United States

American Journal of Medicine ( AM. J. MED. ) (United States) 1980, 69/4  
(567-570)

CODEN: AJMEA

DOCUMENT TYPE: Journal

LANGUAGE: ENGLISH

During an 11-year period (1967 through 1977) CDC monitored reactions of hypersensitivity to botulinal antitoxin of equine origin. Of 268 persons given botulinal antitoxin 24 (9.0 percent) had nonfatal acute (5.3 percent) or delayed (3.7 percent) hypersensitivity reactions to a skin test or therapeutic dose. The over-all rate of reaction did not differ with the age or sex of the recipient or with the type (AB or ABE) of antitoxin administered. Serum sickness occurred significantly more frequently in persons who received more than 40 ml of serum antitoxin ( $p<0.02$ ). The over-all reaction rate was higher than that associated with other equine serum products and probably cannot be substantially reduced. This risk, however, would be substantially reduced if not eliminated by using botulinal **immune globulin** obtained from hyperimmunized human donors.

3324948 81015108 PMID: 399376

Human-derived **immune globulins** for the treatment of botulism.

Metzger J F; Lewis G E

Reviews of infectious diseases (UNITED STATES) Jul-Aug 1979, 1

(4) p689-92, ISSN 0162-0886 Journal Code: 7905878

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

The need for a human-derived **immune globulin** to replace the equine antitoxins currently used in the treatment of botulism is well recognized. A small group of individuals who had received multiple immunizations with pentavalent botulinal toxoid were plasmapheresed for the purpose of collecting a botulism-immune plasma of human origin to be fractionated for the production of **immune globulin**.

Human-derived **immune globulin** will offer the advantage over equine antitoxins of not inducing reactions to foreign protein and of having a prolonged effective half-life.

Record Date Created: 19801120

Record Date Completed: 19801120

6617317 BIOSIS NO.: 000087059479

SEQUENCE HOMOLOGY BETWEEN TETANUS AND **BOTULINUM** TOXINS DETECTED BY AN  
ANTIPEPTIDE ANTIBODY

AUTHOR: HALPERN J L; SMITH L A; SEAMON K B; GROOVER K A; HABIG W H  
AUTHOR ADDRESS: DIV. BACTERIAL PRODUCTS, CENT. BIOL. EVALUATION RES., FOOD  
AND DRUG ADM., BETHESDA, MD. 20892.

JOURNAL: INFECT IMMUN 57 (1). 1989. 18-22. 1989

FULL JOURNAL NAME: Infection and Immunity

CODEN: INFIB

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

ABSTRACT: The extent of immunological similarity between tetanus toxin and **botulinum** toxins A, B, C1, and E was studied by using 10 antibodies produced against synthetic peptides representing different sequences of tetanus toxin, mouse antitetanus serum, and human Tetanus **Immune Globulin**. Antibodies produced against the synthetic peptides recognized tetanus toxin in an enzyme-linked immunosorbent assay and on Western blots (immunoblots) but did not appear to recognize the native protein. One of the antitetanus peptide antibodies, which was produced against a peptide from the amino terminal, cross-reacted with three of the four **botulinum** toxins on immunoblots. This antibody, 1, reacted strongly with **botulinum** toxins B and C1 and weakly with E but did not recognize type A toxin. None of the other peptide antibodies cross-reacted with the **botulinum** toxins. Mouse antitetanus serum and human Tetanus **Immune Globulin** did not recognize any of the **botulinum** toxins on immunoblots. The amino-terminal region of the light chain of tetanus toxin and **botulinum** toxin types A, B, C1, and E are known to have sequence homology. Our data demonstrate that for tetanus toxin and **botulinum** toxin types B, C1, and E this region also has immunological homology. Type A, which has the least amount of homology with tetanus toxin in this region, does not share this immunological homology. These data also suggest that although the native structures of tetanus and **botulinum** toxins have relatively few common immunological determinants, the two toxins may contain short stretches of identical or very similar amino acid sequences.

L9 ANSWER 126 OF 134 CAPLUS COPYRIGHT 2003 ACS  
AB Human-derived or human-compatible antitoxins are administered as an adjunct to therapy with a toxin, e.g. **botulinum** toxin or an immunotoxin, or as an adjunct to therapy with a combination of toxins, to reduce or prevent endogenous prodn. of antibodies to the toxin(s) or other unwanted side effects. They can be used in the form of com. available formulated compns. An i.v. injection compn. of botulism **immune globulin** (human) is described.  
AN 1995:309099 CAPLUS  
DN 122:64301  
TI Adjunct therapy with antitoxins to prevent side effects and insensitivity to the therapeutic uses of toxins  
IN Arnon, Stephen S.  
PA USA  
SO PCT Int. Appl., 53 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9426308	A1	19941124	WO 1994-US5345	19940512
	W: JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 699078	A1	19960306	EP 1994-917379	19940512
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	JP 09500869	T2	19970128	JP 1994-525724	19940512
PRAI	US 1993-62110		19930514		
	WO 1994-US5345		19940512		

L7 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 2000:880982 CAPLUS  
 DOCUMENT NUMBER: 134:32943  
 TITLE: Therapeutic agent comprising a botulinum neurotoxin  
 INVENTOR(S): Bigalke, Hans; Frevert, Jurgen  
 PATENT ASSIGNEE(S): Biotecon Gesellschaft fur Biotechnologische Entwi  
 Cklung und Consulting m.b., Germany  
 SOURCE: PCT Int. Appl., 14 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000074703	A2	20001214	WO 2000-DE1777	20000526
WO 2000074703	A3	20010426		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19925739	A1	20001221	DE 1999-19925739	19990607
PRIORITY APPLN. INFO.:			DE 1999-19925739 A	19990607

L7 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 2000:323250 CAPLUS  
 DOCUMENT NUMBER: 132:303493  
 TITLE: Application of botulinum toxin to the management of  
 neurogenic inflammatory disorders  
 INVENTOR(S): First, Eric R.  
 PATENT ASSIGNEE(S): USA  
 SOURCE: U.S., 7 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6063768	A	20000516	US 1997-923884	19970904
PRIORITY APPLN. INFO.:			US 1996-20400	P 19960906
REFERENCE COUNT:	10			
REFERENCE(S):	(2) Anon; WO 9528171 1995 CAPLUS (4) Binder; US 5670484 1997 CAPLUS (5) Binder; US 5714468 1998 CAPLUS (7) Leppla; US 5677274 1997 CAPLUS (10) Wheatley; US 4921757 1990 CAPLUS			

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1999:571599 CAPLUS  
 DOCUMENT NUMBER: 131:271076  
 TITLE: Prevention of Clostridium botulinum type A,  
 proteolytic B and E toxin formation in refrigerated  
 pea soup by Lactobacillus plantarum ATCC 8014  
 AUTHOR(S): Skinner, G. E.; Solomon, H. M.; Fingerhut, G. A.  
 CORPORATE SOURCE: Division of Food Processing & Packaging, Food Process

Hazard Analysis Branch / National Center for Food  
Safety & Technology, U.S. Food and Drug  
Administration, Summit-Argo, IL, 60501, USA  
J. Food Sci. (1999), 64(4), 724-727  
CODEN: JFDSAZ; ISSN: 0022-1147

SOURCE: Institute of Food Technologists  
PUBLISHER: Journal  
DOCUMENT TYPE: English  
LANGUAGE: 25  
REFERENCE COUNT:  
REFERENCE(S):  
(2) Crandall, A; J Food Prot 1993, V56(6), P485 CAPLUS  
(7) Hutton, M; J Food Safety 1991, V11, P255 CAPLUS  
(13) Peck, M; Trends Food Sci Technol 1997, V8(6),  
P186 CAPLUS  
(17) Riemann, H; J Milk Food Technol 1972, V35, P514  
CAPLUS  
(23) Tanaka, N; J Food Prot 1985, V48(8), P679 CAPLUS  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2001 ACS  
ACCESSION NUMBER: 1998:163478 CAPLUS  
DOCUMENT NUMBER: 128:242882  
TITLE: Multivalent vaccine for Clostridium botulinum  
neurotoxin  
INVENTOR(S): Williams, James A.; Thalley, Bruce S.  
PATENT ASSIGNEE(S): Ophidian Pharmaceuticals, Inc., USA  
SOURCE: PCT Int. Appl., 428 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9808540	A1	19980305	WO 1997-US15394	19970828
W: AU, CA, JP				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9742450	A1	19980319	AU 1997-42450	19970828
EP 1105153	A1	20010613	EP 1997-940746	19970828
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRIORITY APPLN. INFO.:			US 1996-704159	A 19960828
			WO 1997-US15394	W 19970828

L7 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2001 ACS  
ACCESSION NUMBER: 1997:669110 CAPLUS  
DOCUMENT NUMBER: 127:306731  
TITLE: Detection of Clostridium botulinum types A, B, E and F  
in foods by PCR and DNA probe  
AUTHOR(S): Aranda, E.; Rodriguez, M. M.; Asensio, M. A.; Cordoba,  
J. J.  
CORPORATE SOURCE: Facultad de Veterinaria, Higiene y Tecnologia de los  
Alimentos, Universidad de Extremadura, Caceres, 10071,  
Spain  
SOURCE: Lett. Appl. Microbiol. (1997), 25(3), 186-190  
CODEN: LAMIE7; ISSN: 0266-8254  
PUBLISHER: Blackwell  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L7 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2001 ACS  
ACCESSION NUMBER: 1997:101603 CAPLUS  
DOCUMENT NUMBER: 126:99328  
TITLE: Improved compositions and methods for chemodenervation

INVENTOR(S): using neurotoxins  
 Pearce, L. Bruce  
 PATENT ASSIGNEE(S): Pearce, L., Bruce, USA  
 SOURCE: PCT Int. Appl., 44 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9639167	A1	19961212	WO 1996-US8534	19960604
W: AU, CA, JP RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9660343	A1	19961224	AU 1996-60343	19960604
EP 773788	A1	19970521	EP 1996-917968	19960604
R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
US 6087327	A	20000711	US 1998-16123	19980130
PRIORITY APPLN. INFO.:			US 1995-465767	A 19950606
			WO 1996-US8534	W 19960604

L7 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1995:494680 CAPLUS  
 DOCUMENT NUMBER: 122:238248  
 TITLE: Lysozyme-containing composition for prevention of botulism  
 INVENTOR(S): Johnson, Eric A.; Dell Acqua, Ernani  
 PATENT ASSIGNEE(S): Solchem Italiana S.p.A., Italy  
 SOURCE: U.S., 11 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5393545	A	19950228	US 1993-13072	19930203
PRIORITY APPLN. INFO.:			IT 1992-MI217	19920205

L7 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1995:20115 CAPLUS  
 DOCUMENT NUMBER: 122:98185  
 TITLE: Conserved structure of genes encoding components of botulinum neurotoxin complex M and sequence of the gene coding for the nontoxic component in nonproteolytic Clostridium botulinum type E  
 AUTHOR(S): East, Alison K.; Collins, Matthew D.  
 CORPORATE SOURCE: Dep. Microbiology, Inst. Food Research, Reading, RG6 2EF, UK  
 SOURCE: Curr. Microbiol. (1994), 29(2), 69-77  
 CODEN: CUMIDD; ISSN: 0343-8651  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

L6 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 2000:880982 CAPLUS  
 DOCUMENT NUMBER: 134:32943  
 TITLE: Therapeutic agent comprising a botulinum neurotoxin  
 INVENTOR(S): Bigalke, Hans; Frevert, Jurgen  
 PATENT ASSIGNEE(S): Biotecon Gesellschaft fur Biotechnologische Entwi  
 Cklung und Consulting m.b., Germany  
 SOURCE: PCT Int. Appl., 14 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000074703	A2	20001214	WO 2000-DE1777	20000526
WO 2000074703	A3	20010426		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
DE 19925739	A1	20001221	DE 1999-19925739	19990607
PRIORITY APPLN. INFO.:			DE 1999-19925739 A	19990607

L6 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 2000:323250 CAPLUS  
 DOCUMENT NUMBER: 132:303493  
 TITLE: Application of botulinum toxin to the management of  
 neurogenic inflammatory disorders  
 INVENTOR(S): First, Eric R.  
 PATENT ASSIGNEE(S): USA  
 SOURCE: U.S., 7 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6063768	A	20000516	US 1997-923884	19970904
PRIORITY APPLN. INFO.:			US 1996-20400	P 19960906
REFERENCE COUNT:	10			
REFERENCE(S):	(2) Anon; WO 9528171 1995 CAPLUS (4) Binder; US 5670484 1997 CAPLUS (5) Binder; US 5714468 1998 CAPLUS (7) Leppla; US 5677274 1997 CAPLUS (10) Wheatley; US 4921757 1990 CAPLUS			
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L6 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2001 ACS  
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 DOCUMENT NUMBER: 131:271076  
 TITLE: Prevention of Clostridium botulinum type A,  
 proteolytic B and E toxin formation in refrigerated  
 pea soup by Lactobacillus plantarum ATCC 8014  
 AUTHOR(S): Skinner, G. E.; Solomon, H. M.; Fingerhut, G. A.  
 CORPORATE SOURCE: Division of Food Processing & Packaging, Food Process

SOURCE: Hazard Analysis Branch / National Center for Food Safety & Technology, U.S. Food and Drug Administration, Summit-Argo, IL, 60501, USA  
J. Food Sci. (1999), 64(4), 724-727  
CODEN: JFDSAZ; ISSN: 0022-1147

PUBLISHER: Institute of Food Technologists

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 25

REFERENCE(S):  
(2) Crandall, A; J Food Prot 1993, V56(6), P485 CAPLUS  
(7) Hutton, M; J Food Safety 1991, V11, P255 CAPLUS  
(13) Peck, M; Trends Food Sci Technol 1997, V8(6), P186 CAPLUS  
(17) Riemann, H; J Milk Food Technol 1972, V35, P514 CAPLUS  
(23) Tanaka, N; J Food Prot 1985, V48(8), P679 CAPLUS  
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TITLE: Multivalent vaccine for Clostridium botulinum neurotoxin  
INVENTOR(S): Williams, James A.; Thalley, Bruce S.  
PATENT ASSIGNEE(S): Ophidian Pharmaceuticals, Inc., USA  
SOURCE: PCT Int. Appl., 428 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
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AU 9742450	A1	19980319	AU 1997-42450	19970828
EP 1105153	A1	20010613	EP 1997-940746	19970828
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRIORITY APPLN. INFO.:			US 1996-704159	A 19960828
			WO 1997-US15394	W 19970828

L6 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2001 ACS  
ACCESSION NUMBER: 1997:669110 CAPLUS  
DOCUMENT NUMBER: 127:306731  
TITLE: Detection of Clostridium botulinum types A, B, E and F in foods by PCR and DNA probe  
AUTHOR(S): Aranda, E.; Rodriguez, M. M.; Asensio, M. A.; Cordoba, J. J.  
CORPORATE SOURCE: Facultad de Veterinaria, Higiene y Tecnologia de los Alimentos, Universidad de Extremadura, Caceres, 10071, Spain  
SOURCE: Lett. Appl. Microbiol. (1997), 25(3), 186-190  
CODEN: LAMIE7; ISSN: 0266-8254

PUBLISHER: Blackwell  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L6 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2001 ACS  
ACCESSION NUMBER: 1997:101603 CAPLUS  
DOCUMENT NUMBER: 126:99328  
TITLE: Improved compositions and methods for chemodenervation

INVENTOR(S): using neurotoxins  
 Pearce, L. Bruce  
 PATENT ASSIGNEE(S): Pearce, L., Bruce, USA  
 SOURCE: PCT Int. Appl., 44 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9639167	A1	19961212	WO 1996-US8534	19960604
W: AU, CA, JP RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9660343	A1	19961224	AU 1996-60343	19960604
EP 773788	A1	19970521	EP 1996-917968	19960604
R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
US 6087327	A	20000711	US 1998-16123	19980130
PRIORITY APPLN. INFO.:			US 1995-465767	A 19950606
			WO 1996-US8534	W 19960604

L6 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2001 ACS  
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 DOCUMENT NUMBER: 122:238248  
 TITLE: Lysozyme-containing composition for prevention of botulism  
 INVENTOR(S): Johnson, Eric A.; Dell Acqua, Ernani  
 PATENT ASSIGNEE(S): Solchem Italiana S.p.A., Italy  
 SOURCE: U.S., 11 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5393545	A	19950228	US 1993-13072	19930203
PRIORITY APPLN. INFO.:			IT 1992-MI217	19920205

L6 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1995:998457 CAPLUS  
 DOCUMENT NUMBER: 124:54039  
 TITLE: Growth of proteolytic Clostridium botulinum in process cheese products: I. Data acquisition for modeling the influence of pH, sodium chloride, emulsifying salts, fat dry basis, and temperature  
 AUTHOR(S): Ter Steeg, Pieter F.; Cuppers, Henk G. A. M.;  
 Hellemans, Johan C.; Rijke, Guus  
 CORPORATE SOURCE: Unilever Research Laboratorium, Vlaardingen, 3133 AT, Neth.  
 SOURCE: J. Food Prot. (1995), Volume Date 1995, 58(10), 1091-9  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

L6 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1995:484983 CAPLUS  
 DOCUMENT NUMBER: 122:263880  
 TITLE: Growth and toxin production by non-proteolytic and proteolytic Clostridium botulinum in cooked vegetables  
 AUTHOR(S): Carlin, F.; Peck, M.W.

CORPORATE SOURCE: Norwich Laboratory, Institute of Food Research,  
Norwich, NR4 7UA, UK  
SOURCE: Lett. Appl. Microbiol. (1995), 20(3), 152-6  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L6 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2001 ACS  
ACCESSION NUMBER: 1995:20115 CAPLUS  
DOCUMENT NUMBER: 122:98185  
TITLE: Conserved structure of genes encoding components of  
botulinum neurotoxin complex M and sequence of the  
gene coding for the nontoxic component in  
nonproteolytic Clostridium botulinum type E  
AUTHOR(S): East, Alison K.; Collins, Matthew D.  
CORPORATE SOURCE: Dep. Microbiology, Inst. Food Research, Reading, RG6  
2EE, UK  
SOURCE: Curr. Microbiol. (1994), 29(2), 69-77  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L6 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2001 ACS  
ACCESSION NUMBER: 1985:575331 CAPLUS  
DOCUMENT NUMBER: 103:175331  
TITLE: Selective and differential medium for detecting  
Clostridium botulinum  
AUTHOR(S): Silas, J. C.; Carpenter, J. A.; Hamdy, M. K.;  
Harrison, M. A.  
CORPORATE SOURCE: Dep. Food Sci., Univ. Georgia, Athens, GA, 30602, USA  
SOURCE: Appl. Environ. Microbiol. (1985), 50(4), 1110-11  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L6 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2001 ACS  
ACCESSION NUMBER: 1980:582504 CAPLUS  
DOCUMENT NUMBER: 93:182504  
TITLE: Electrophoretic analysis of Clostridium botulinum  
types A and B hemagglutinins  
AUTHOR(S): DasGupta, Bibhuti R.  
CORPORATE SOURCE: Food Res. Inst., Univ. Wisconsin, Madison, WI, 53706,  
USA  
SOURCE: Can. J. Microbiol. (1980), 26(8), 992-7  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L6 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2001 ACS  
ACCESSION NUMBER: 1978:609722 CAPLUS  
DOCUMENT NUMBER: 89:209722  
TITLE: Characteristics of changes in some properties of the  
causative organism of botulism type A and type B  
following exposure to nitrosomethylurea and  
ethylenimine  
AUTHOR(S): Al'bitskaya, N. B.  
CORPORATE SOURCE: USSR  
SOURCE: Nauch. Osnovy Pr-va Virus. i Bakteriin. Preparatov  
(1977) 223-7  
From: Ref. Zh., Biol. Khim. 1978, Abstr. No. 17Ts680  
DOCUMENT TYPE: Journal  
LANGUAGE: Russian